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FIGURE 1 A

5'  
AGGTTCTGGGTGGACAAATATCAAGACGGAGGAGATCTCTGAAGTGAAGA  
TGGATGCAGAATTCCGACATGACTCAGGATATGAAGTTCATCATCAAAAA  
TTGGTGTTCCTTTGCAGAAGATGTGGGTTCAAACAAAGGTGCAATCATTGG  
ACTCATGGTGGGCGGTGTTGTCATAGCGACAGTATCGTCATCACCTTGG  
TGATGCTGAAGAAGAAACAGTACACATCCATTCATCATGGTGTGGTGGAG  
GTAGGTAAACTTGACTGCATGTTTCCAAGTGGGAATTAAGACTATGAGAG  
AATTAGGCTTAGCTTTTTGCTAAGAACTAGCTAAGTATCTCTTTTAAAAA  
ACCAATCAGTGTGCTTCCATGATGCTTGGGTACAGTTGTTCTTTCTTGT  
TTTGGTTTTATTTCATTGCAACTTACCGTGAATATTCTGCTCAAGGTATT  
GAGAGTGTGTGTTGTTATCTTAACTTACAATTTGTGTTGAAGTTATCAAA  
TAATACAAATGATAATGCATGACTTTAAAAAAGCAT

FIGURE 1 B

MDAEFRHDSGYEVHHQKLVFFAEDVG  
SNKGAIIGLMVGGYVIATVIVITLVM  
LKKKQYTSIHGVEVGKLD CMFPSG  
N

(i)

MQNSDMTQDMKFIIKNWYVK

(ii)

MQNSDMTQDMKFIIKNWCSLQKM WV  
QTKVQSLDSWWAVLS

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FIGURE 1C

5'  
 AGGTTCTGGGTGGACAAATATCAAGACGGAGGAGATCTCTGAAGTGAAG  
 →  
 ATGGATGCAGAATTCCGACATGACTCAGGATATGAAGTTCATCATCAAA  
 AATTGGTACGTAAAATAATTTACCTCTTTCCACTACTGTTTGTCTTGCC  
 AAATGACCTATTA ACTCTGGTTCATCCTGTGCTAGAAATCAAATTAAGG  
 \*  
 AAAAGATAAAAATACAATGCTTGCCTATAGGATTACCATGAAAACATGA  
 AGAAATAAATAGGCTAG  
 3'

FIGURE 1 D

MDAEFRHDSGYEVHHQK①VRKIIY①F  
PLLFY①PNDLLT①VHPVLEIKLRKR

FIGURE 1E

5'  
TTGATAATTAAATGTTATAGCATGGACACTGACATTTACATTTTTTACTT  
 ATGTTTTTGGTTTTTAAATGACTCTGCATTTTGTTTTAAGCTTCAAATTA  
TTATTGAATAATGAAATTCATCAGAACAATTAGTGTTAAGAATCATATA  
GCAATTTATAGAAAAGGAAGAGTTCGTAGGTTATAAATTCTGTTAGTTGC  
 TAAGAAGCATTTTTTAAAATTATGTACTATAGCTCTTTATTCA<sup>1</sup>GCAGACGA  
 ACCAATTACAATCTGTGTA ACTAGAACACTTGATCAAAATTATATAATTT  
 TTACAACGCTTCACTGCATAGATACATGAACATAATTTATTTTGAATTGG  
 AACAAAGCCCCAAAGTAGCAGTTTTGTTCTACCAGGTAATTAATGCTCAT  
TTTTAAAGGCTTTTATTATTATTTCTGAAGTAATGAGTGACATGGAAAA  
 AGACACATAATAGGCTAAACAATAAGCCCGTAAGCCAAGCCAACATATTC

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CAGGAACAAATCCTTGCCAACCTCTCAACCAGGATTAACTTCTGCTTTT  
 CCCCCATTTTCAAAAATTATAGCATGTATTAAATGCAGCAGAAGCCTTA  
 CTTTCAGGGTCCCTTACCCTTTTCATTCTTTTTGTTCAAATAGGTAGT  
 AATTGAAGGTTTAAATATAGGGTATCATTCTTTCTTTAAGAGTCATTTATC  
 AATTTTCTTCTAACTTCAGGCCTAGAAAGAAGTTTTGGGTAGGCTTTGTC  
 TTACAGTGTTATTATTTATGAGTAAACTAATTGGTTGTCCTGCATACTT  
 TAATTATGATGTAATAC

FIGURE 1F

5' <sup>①</sup>→  
 GTGTTCTTTGCAGAAGATGTGGGTTCAAACAAAGGTGCAATCATTGGACT  
<sup>②</sup>→ <sup>S<sub>1</sub>\*</sup>  
 CATGGTGGGCGGTGTTGTCATAGCGACAGTGATCGTCATCACCTTGGTGA  
 TGCTGAAGAAGAAACAGTACACATCCATTCATCATGGTGTGGTGGAGGTA  
<sup>S<sub>2</sub>\*</sup>  
 GGTAACCTTGACTGCATGTTTCCAAGTGGGAATTAAGACTATGAGAGAAT  
 TAGGCTTAGCTTTTTGCTAAGAACTAGCTAAGTATCTCTTTTAAAAAACC  
 AATCAGTGTGCTTCCATGATGCTTGGGTACAGTTGTTCTTTCTTGTTTT  
 GGTTTTCATTCATTGCAACTTACCGTGAATATTCTGCTCAAGGTATTGAG  
 AGTGTGTGTTGTTATCTTAACTTACAATTTGTGTTGAAGTTATCAAATAA  
 TACAAATGATAATGCATGACTTTAAAAAAGCAT

FIGURE 1G

(gi)

M V W Q T K V Q S L D S W W A V L S

(i)



M V G G V V I A T V I V I T L V M L K K K Q Y T S  
 I H H G V V E V G K L D C M F P S G N

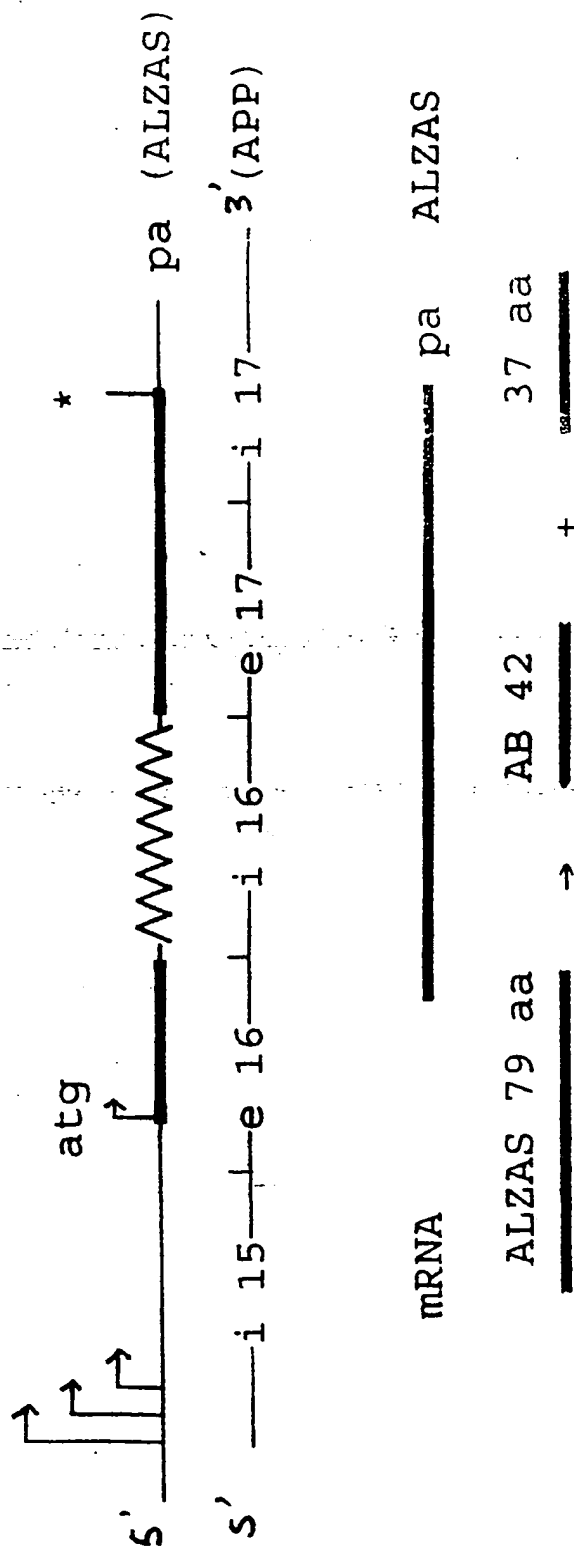
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FIGURE 1H

5'  
TATTTTATGTTTAATCCAAATAAAGAGCAAGAATAAAGCAACATTTCAGAT  
TTTGGTTTCTGGAGACAATAGTTAGAAAGCATGAGTTATGATTGACTTAAAA  
TTCTTGTTGCCTGTACTTCACTTTGAAATAACATTATGCTTTAAAAAGCAAT  
ACACTGCTAAAGGTTAATTTGAATTCTGCAGAATTACTATAGCAAAAAGTAG  
GTAACAAGATATCTTTTTTCTATTGTTTAACTCCTTTCTTTCAGAAATGCCT  
ATTCTGTGCATTAAAAGTGTCCCTCCAAGGAAATTAGGACATCTGCAGAGT  
TGAAAAACACCTAAGTCTCAGTCACTTAGAGTCACACATCAGGGCTCAGAGT  
GCTATGACTAGGAAAATGCTGACCTCCTTTCATTAGTATGATCGTTCCTTTC  
CAGCTTTTGATAGATCCAAGCGCTATCTTCCCACCACTCACCAAATGTTCCA  
CCTGTCAAAGGGTTTCAGGTCCCTGCAGACTTCGGTTTTGACCTGTGGGGAA  
AGTAGACTTCCTCGAACTGGGGAAGCCACATGTTGTACATCCTTCTATAAAC  
TATGATTATCATTCTTAGTAGGAAAATATGTGATTCTTTTTTTTTTTTTTT  
TTTTAAAGTAAGCATCAAATATTTGACCAACCAGTTGGGCAGAGAATATACT  
GAAACTTTTTATATAACCTCATCCAAATGTCCCCTGCATTTAAGAAATGAAA  
TTCTTCTAATTGCGTTTATAAATTGTAAATTATATTGCATTTAGAAATTAAA  
ATTCTTTTTCTTAATTTGTTTTCAAGG

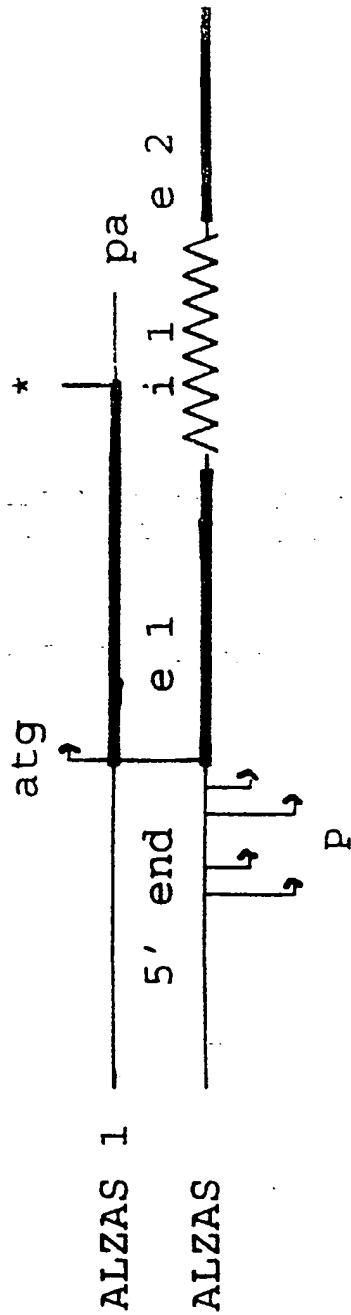
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**Fig 2 a**



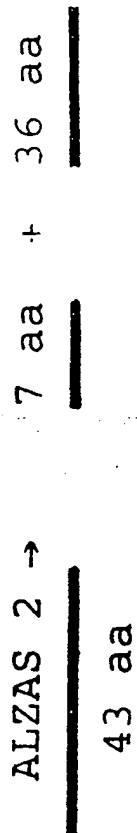
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Fig 2 b



ALZAS 1 → 37 aa + 13 aa  
 50 aa

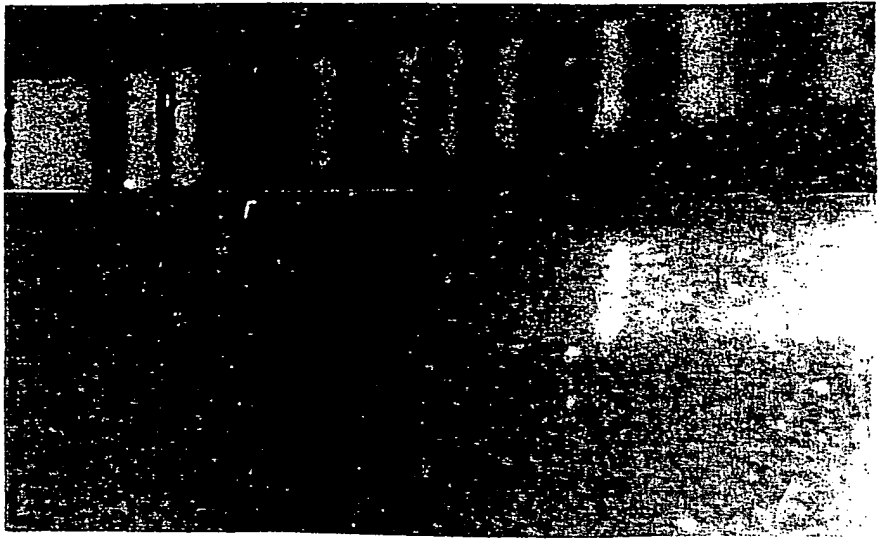
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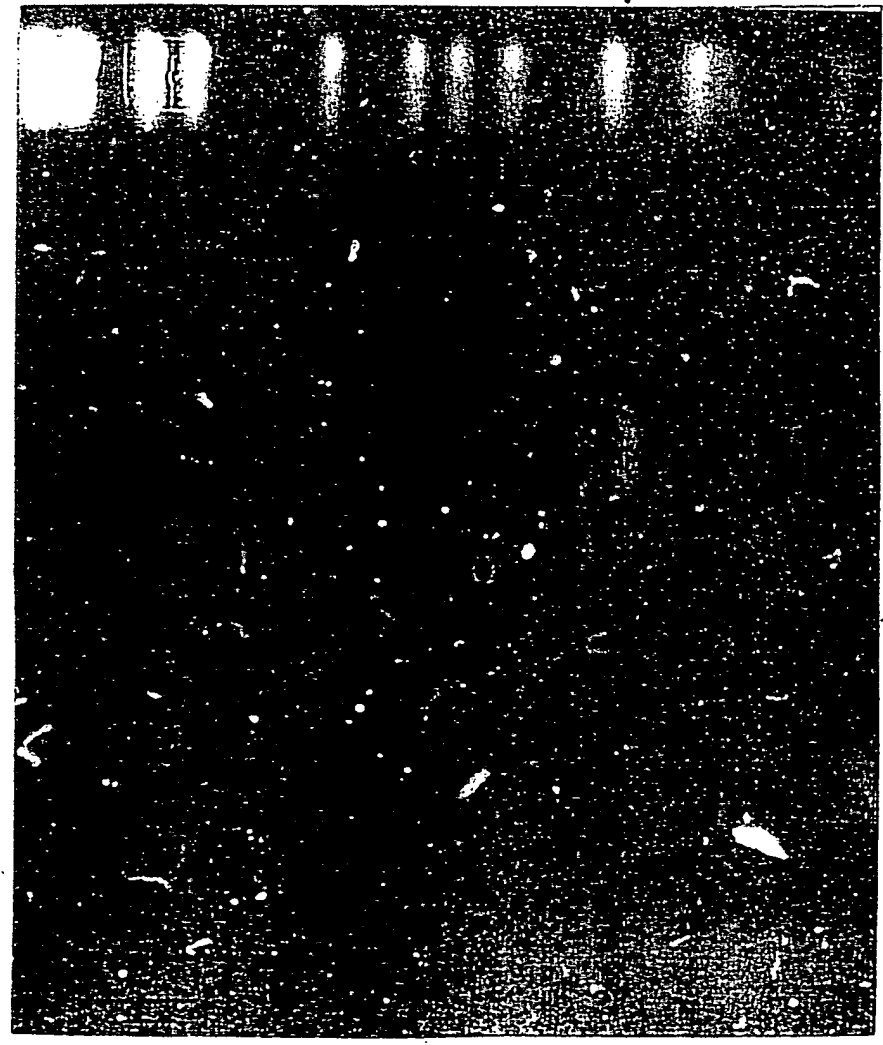
fig 3

9  
8  
7



-289-  
bp

6  
5  
4  
3  
2  
1



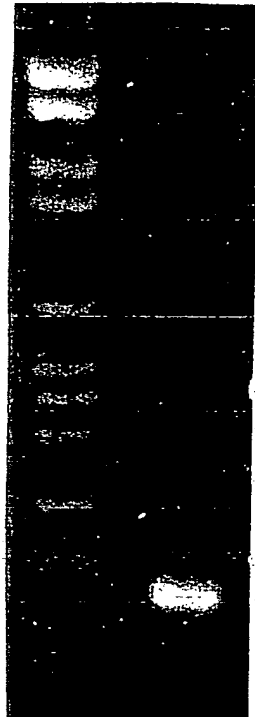


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fig3cont.

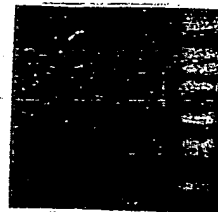
10

11



196-bp

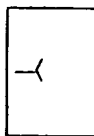
12 13



196-bp

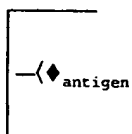
# ELISA-test for ALZAS protein Fig 4a 10/16

(0)



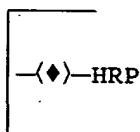
(0) Coat plates with anti-ALZASa IgG

(1)



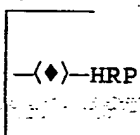
(1) React with antigen (ALZAS) in serum, urine, saliva, protein extracts etc.

(2)



(2) React with anti-ALZASb IgG conjugated with horse radish peroxidase

(3)



'OPD'  
substr.

coloured  
product

(3) React with substrate ortho-phosphate diamine or other suitable substrate; substrate is cleaved to give a colour reaction which is proportional to the amount of bound HRP-conjugated (second) antibody; measure concentration of colour in microplate reader.

# ELISA-test for anti-ALZAS endogenous IgG

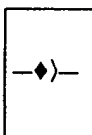
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Fig 4b

(0)



(0) Coat plates with ALZASb epitope

(1)



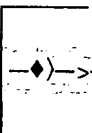
(1) React with immunoglobulin G in sample

(2)



(2) React with anti-human Fc IgG conjugated with horse radish peroxidase

(3)

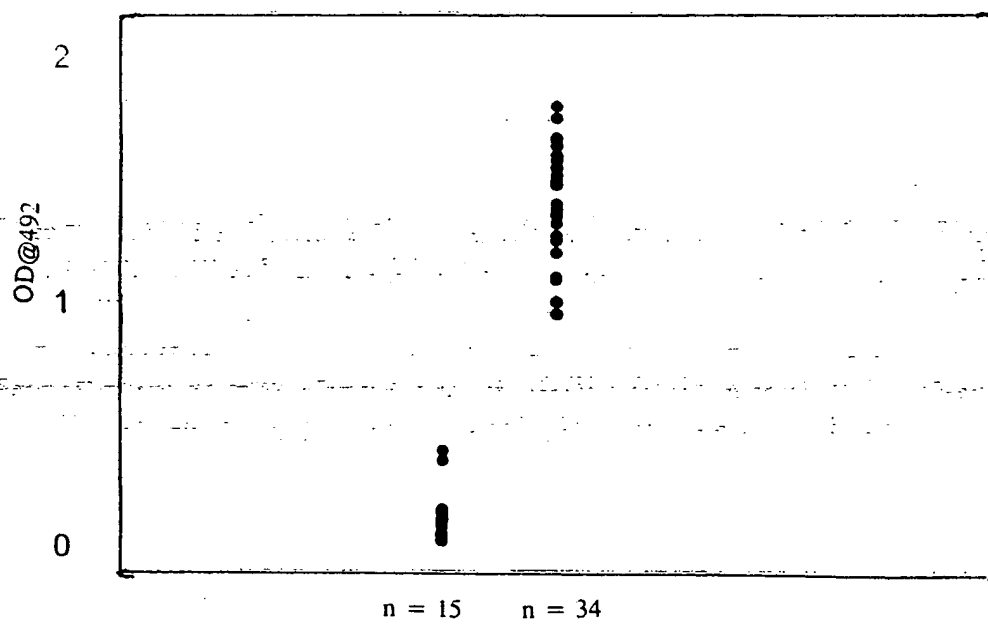


'OPD'  
substr.  
coloured  
product

(3) React with substrate ortho-phosphate diamine or other suitable substrate; substrate is cleaved to give a colour reaction which is proportional to the amount of bound HRP-conjugated (second) antibody; measure concentration of colour in microplate reader.

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fig. 4c



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fig. 4D

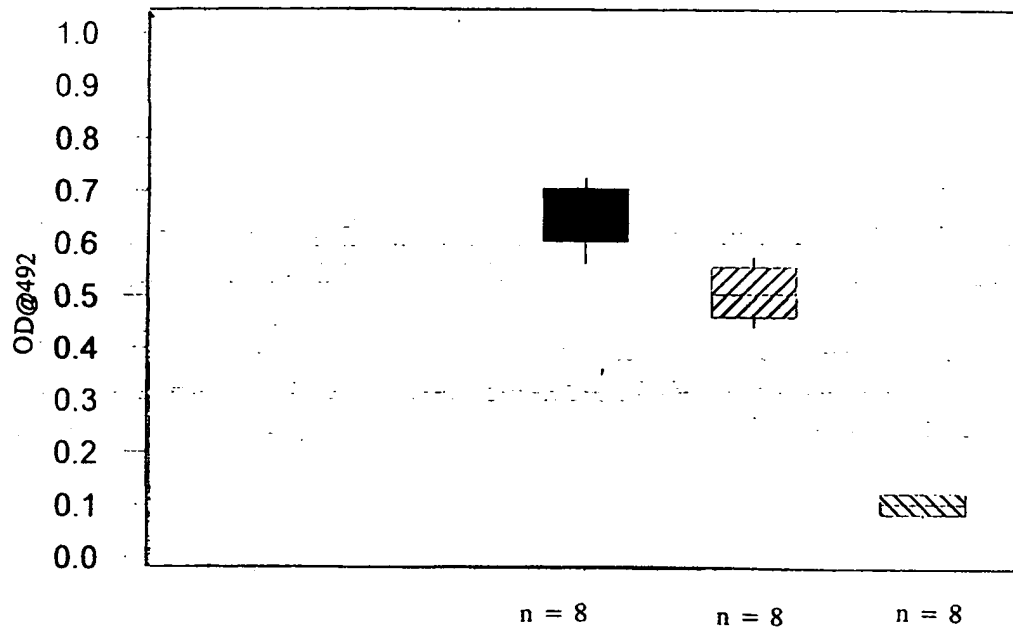
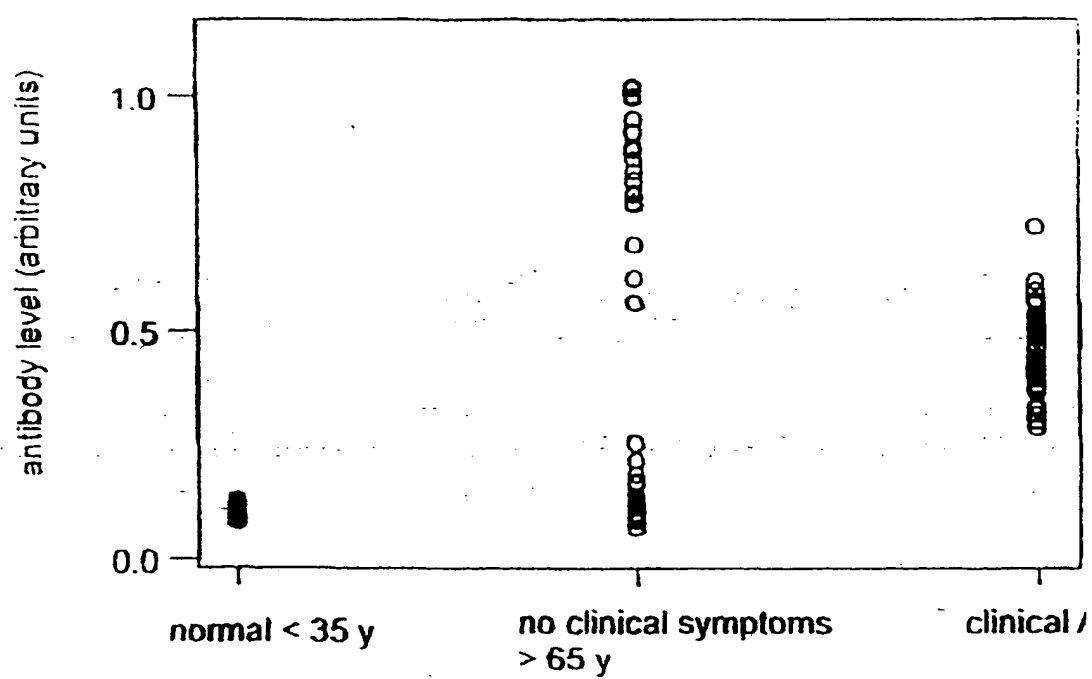
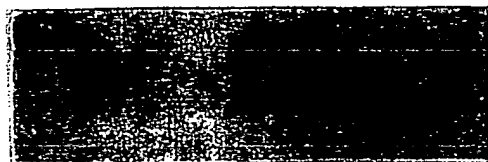


fig. 4 E

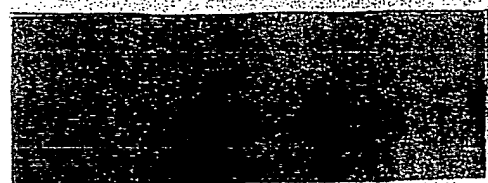


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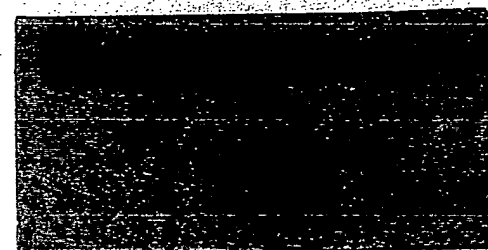
fig. 5



A



B



C

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fig. 5D

